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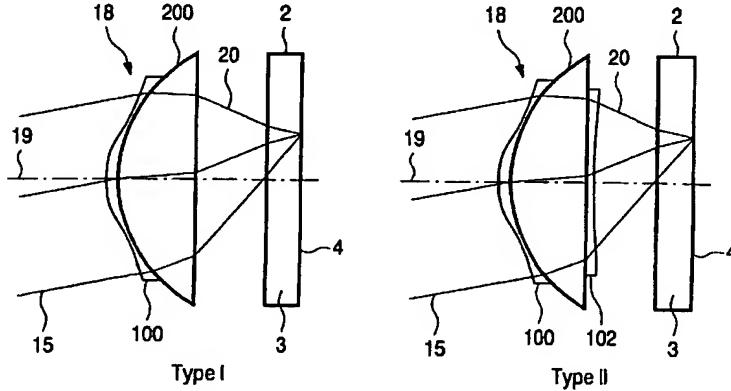
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(54) Title: SCANNING DEVICE INCLUDING AN OBJECTIVE LENS FORMED OF TWO MATERIALS



$$0.8 < \frac{t - 1.1\phi + 1.1}{1.18 - 2.28 \left[\frac{FWD + \frac{t_d}{n_d}}{n_d} \right]} < 1.2 \quad (I)$$

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(57) **Abstract:** An optical scanning device (1) for scanning an information layer (4) of an optical record carrier (2), the information layer (4) being covered by a transparent layer (3) of thickness t_d and refractive index n_d . The device comprises a radiation source (11) for generating a radiation beam (12, 15, 20) and an objective system (18) for converging the radiation beam on the information layer. The objective system is characterised in comprising a lens comprising a synthetic resin on a substrate, the total thickness t of the lens satisfying the condition: Formula (I), where $FWD + t_d/n_d < 0.51$, and FWD is the free working distance between the lens (18) and carrier (2) and Φ is the entrance pupil diameter of the lens (18), where t , t_d , Φ and FWD are expressed in millimetres.